

Datasheet for ABIN625093

TGFA ELISA Kit[Go to Product page](#)**1** Image**8** Publications

Overview

Quantity: 96 tests

Target: TGFA

Reactivity: Human

Method Type: Sandwich ELISA

Detection Range: 3-1000 pg/mL

Minimum Detection Limit: 3 pg/mL

Application: ELISA

Product Details

Purpose: Human TGF alpha ELISA Kit for cell culture supernatants, plasma, and serum samples.

Sample Type: Plasma, Cell Culture Supernatant, Serum

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This ELISA kit shows no cross-reactivity with any of the cytokines tested: Human ALCAM, Angiopoietin-1, Angiostatin, B7-1, BMP-7, CD30, CD40, CD40 Ligand, CTLA-4, CXCL16, Dkk-4, DR6, Endostatin, E-Selectin, HB-EGF, ICAM-2, IGF-II, IL-10 Ra, IL-10 Rb, IL-13 Ra1, IL-18 BPa, IL-18 Rb, IL-18, IL-2 Ra, MMP-1, IL-2 Rb, IL-2 Rg, IL-21 R, MMP-2, MMP-3, MMP-10, MMP-13).

Sensitivity: 3 pg/mL

Characteristics:

- Strip plates and additional reagents allow for use in multiple experiments
- Quantitative protein detection
- Establishes normal range

Product Details

- The best products for confirmation of antibody array data

Components:	<ul style="list-style-type: none">• Pre-Coated 96-well Strip Microplate• Wash Buffer• Stop Solution• Assay Diluent(s)• Lyophilized Standard• Biotinylated Detection Antibody• Streptavidin-Conjugated HRP• TMB One-Step Substrate
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Material not included:	<ul style="list-style-type: none">• Distilled or deionized water• Precision pipettes to deliver 2 µL to 1 µL volumes• Adjustable 1-25 µL pipettes for reagent preparation• 100 µL and 1 liter graduated cylinders• Tubes to prepare standard and sample dilutions• Absorbent paper• Microplate reader capable of measuring absorbance at 450nm• Log-log graph paper or computer and software for ELISA data analysis
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Target Details

Target:	TGFA
Alternative Name:	TGF-alpha (TGFA Products)
Background:	Gene Names: TGFA Protein names: Protransforming growth factor alpha [Cleaved into: Transforming growth factor alpha (TGF-alpha) (EGF-like TGF) (ETGF) (TGF type 1)]
Gene ID:	7039
UniProt:	P01135
Pathways:	NF-kappaB Signaling , RTK Signaling , EGFR Signaling Pathway

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples 2 fold
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.

Application Details

2. Add 100 µL of standard or sample to each well.
3. Incubate 2.5 h at RT or O/N at 4 °C.
4. Add 100 µL of prepared biotin antibody to each well.
5. Incubate 1 h at RT.
6. Add 100 µL of prepared Streptavidin solution to each well.
7. Incubate 45 min at RT.
8. Add 100 µL of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50 µL of Stop Solution to each well.
11. Read at 450 nm immediately.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Storage Comment: The entire kit may be stored at -20°C for up to 1 year from the date of shipment. Avoid repeated freeze-thaw cycles. The kit may be stored at 4°C for up to 6 months. For extended storage, it is recommended to store at -80°C.

Expiry Date: 6 months

Publications

Product cited in: Lim, Yoo, Kim, Hur, Lee, Hur, Lee, Lee, Park, Lee, Chang, Kim, Kang, Hong, Kim, Kim, Yoon, Nam, Yang, Kim, Cho, Won: "GC1118, an Anti-EGFR Antibody with a Distinct Binding Epitope and Superior Inhibitory Activity against High-Affinity EGFR Ligands." in: **Molecular cancer therapeutics**, Vol. 15, Issue 2, pp. 251-63, (2016) ([PubMed](#)).

Koob, Lim, Zabek, Masseur: "Cytokines in single layer amnion allografts compared to multilayer amnion/chorion allografts for wound healing." in: **Journal of biomedical materials research. Part B, Applied biomaterials**, Vol. 103, Issue 5, pp. 1133-40, (2015) ([PubMed](#)).

Briana, Liosi, Gourgiotis, Boutsikou, Marmarinos, Baka, Hassiakos, Malamitsi-Puchner: "Fetal concentrations of the growth factors TGF-α and TGF-β1 in relation to normal and restricted fetal growth at term." in: **Cytokine**, Vol. 60, Issue 1, pp. 157-61, (2013) ([PubMed](#)).

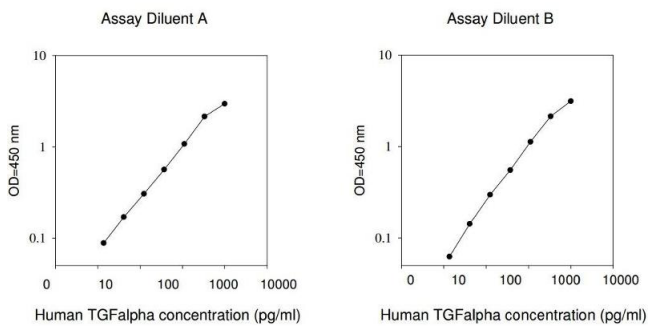
Miyabayashi, Ijichi, Mohri, Tada, Yamamoto, Asaoka, Ikenoue, Tateishi, Nakai, Isayama, Morishita, Omata, Moses, Koike: "Erlotinib prolongs survival in pancreatic cancer by blocking

gemcitabine-induced MAPK signals." in: **Cancer research**, Vol. 73, Issue 7, pp. 2221-34, (2013) ([PubMed](#)).

Drzymała-Czyż, Banasiewicz, Tubacka, Majewski, Biczysko, Kościński, Drews, Walkowiak: "Inulin supplementation in rat model of pouchitis." in: **Acta biochimica Polonica**, Vol. 58, Issue 3, pp. 381-4, (2012) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



ELISA

Image 1.